



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/726,967
Source: EFW0
Date Processed by STIC: 9/13/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 0726,967
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>.-<223> section that some may be missing	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>.-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>.-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>.-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION SEQ ID NO X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences		
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing Per 1.823 of Sequence Rules, use of <220>.-<223> is MANDATORY if n's or Xaa's are present In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: <u>Unknown, Artificial Sequence, or scientific name (Genus/species)</u> <220>.-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



IFWO

RAW SEQUENCE LISTING

DATE: 09/13/2004

PATENT APPLICATION: US/10/726,967

TIME: 11:27:52

Input Set : A:\Sunesis-0021.ST25.txt

Output Set: N:\CRF4\09132004\J726967.raw

3 <110> APPLICANT: Ballinger, Marcus
 5 <120> TITLE OF INVENTION: Constructs for Homogenously Processed Preparations of Beta
 Site

6 App-Cleaving Enzyme
 8 <130> FILE REFERENCE: 2004345-0021
 10 <140> CURRENT APPLICATION NUMBER: 10/726,967
 11 <141> CURRENT FILING DATE: 2003-12-02
 13 <160> NUMBER OF SEQ ID NOS: 110
 15 <170> SOFTWARE: PatentIn version 3.2
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 501
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Full length human BACE1 isform A
 22 <400> SEQUENCE: 1
 24 Met Ala Gln Ala Leu Pro Trp Leu Leu Leu Trp Met Gly Ala Gly Val
 25 1 5 10 15
 28 Leu Pro Ala His Gly Thr Gln His Gly Ile Arg Leu Pro Leu Arg Ser
 29 20 25 30
 32 Gly Leu Gly Gly Ala Pro Leu Gly Leu Arg Leu Pro Arg Glu Thr Asp
 33 35 40 45
 36 Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val Glu Met Val
 37 50 55 60
 40 Asp Asn Leu Arg Gly Lys Ser Gly Gln Gly Tyr Tyr Val Glu Met Thr
 41 65 70 75 80
 44 Val Gly Ser Pro Pro Gln Thr Leu Asn Ile Leu Val Asp Thr Gly Ser
 45 85 90 95
 48 Ser Asn Phe Ala Val Gly Ala Ala Pro His Pro Phe Leu His Arg Tyr
 49 100 105 110
 52 Tyr Gln Arg Gln Leu Ser Ser Thr Tyr Arg Asp Leu Arg Lys Gly Val
 53 115 120 125
 56 Tyr Val Pro Tyr Thr Gln Gly Lys Trp Glu Gly Glu Leu Gly Thr Asp
 57 130 135 140
 60 Leu Val Ser Ile Pro His Gly Pro Asn Val Thr Val Arg Ala Asn Ile
 61 145 150 155 160
 64 Ala Ala Ile Thr Glu Ser Asp Lys Phe Phe Ile Asn Gly Ser Asn Trp
 65 165 170 175
 68 Glu Gly Ile Leu Gly Leu Ala Tyr Ala Glu Ile Ala Arg Pro Asp Asp
 69 180 185 190
 72 Ser Leu Glu Pro Phe Phe Asp Ser Leu Val Lys Gln Thr His Val Pro
 73 195 200 205
 76 Asn Leu Phe Ser Leu Gln Leu Cys Gly Ala Gly Phe Pro Leu Asn Gln
 77 210 215 220
 80 Ser Glu Val Leu Ala Ser Val Gly Gly Ser Met Ile Ile Gly Gly Ile
 81 225 230 235 240

(pg.6)
 Does Not Comply
 Corrected Diskette Needed
 (pg.1-5)

Insert this
 response into
 section

<220>-<223>

↑ mandatory,
 <213> responses
 has to be
 either artificial/
 unknown or
 Genus/Species
 See item
 #10 on
 error
 summary
 sheet.

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DATE: 09/13/2004

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Input Set : A:\Sunesis-0021.ST25.txt

Output Set: N:\CRF4\09132004\J726967.raw

84 Asp His Ser Leu Tyr Thr Gly Ser Leu Trp Tyr Thr Pro Ile Arg Arg
 85 245 250 255
 88 Glu Trp Tyr Tyr Glu Val Ile Ile Val Arg Val Glu Ile Asn Gly Gln
 89 260 265 270
 92 Asp Leu Lys Met Asp Cys Lys Glu Tyr Asn Tyr Asp Lys Ser Ile Val
 93 275 280 285
 96 Asp Ser Gly Thr Thr Asn Leu Arg Leu Pro Lys Lys Val Phe Glu Ala
 97 290 295 300
 100 Ala Val Lys Ser Ile Lys Ala Ala Ser Ser Thr Glu Lys Phe Pro Asp
 101 305 310 315 320
 104 Gly Phe Trp Leu Gly Glu Gln Leu Val Cys Trp Gln Ala Gly Thr Thr
 105 325 330 335
 108 Pro Trp Asn Ile Phe Pro Val Ile Ser Leu Tyr Leu Met Gly Glu Val
 109 340 345 350
 112 Thr Asn Gln Ser Phe Arg Ile Thr Ile Leu Pro Gln Gln Tyr Leu Arg
 113 355 360 365
 116 Pro Val Glu Asp Val Ala Thr Ser Gln Asp Asp Cys Tyr Lys Phe Ala
 117 370 375 380
 120 Ile Ser Gln Ser Ser Thr Gly Thr Val Met Gly Ala Val Ile Met Glu
 121 385 390 395 400
 124 Gly Phe Tyr Val Val Phe Asp Arg Ala Arg Lys Arg Ile Gly Phe Ala
 125 405 410 415
 128 Val Ser Ala Cys His Val His Asp Glu Phe Arg Thr Ala Ala Val Glu
 129 420 425 430
 132 Gly Pro Phe Val Thr Leu Asp Met Glu Asp Cys Gly Tyr Asn Ile Pro
 133 435 440 445
 136 Gln Thr Asp Glu Ser Thr Leu Met Thr Ile Ala Tyr Val Met Ala Ala
 137 450 455 460
 140 Ile Cys Ala Leu Phe Met Leu Pro Leu Cys Leu Met Val Cys Gln Trp
 141 465 470 475 480
 144 Arg Cys Leu Arg Cys Leu Arg Gln Gln His Asp Asp Phe Ala Asp Asp
 145 485 490 495
 148 Ile Ser Leu Leu Lys
 149 500
 152 <210> SEQ ID NO: 2
 153 <211> LENGTH: 10
 154 <212> TYPE: PRT
 155 <213> ORGANISM: Beta secretase cleavage site of Swedish mutant of human amyloid
 precursor protein (APP)
 157 <400> SEQUENCE: 2
 159 Ser Glu Val Asn Leu Asp Ala Glu Phe Arg
 160 1 5 10
 163 <210> SEQ ID NO: 3
 164 <211> LENGTH: 16
 165 <212> TYPE: PRT
 166 <213> ORGANISM: Residues 22-37 of human BACE1 preprosequence
 168 <400> SEQUENCE: 3
 170 Thr Gln His Gly Ile Arg Leu Pro Leu Arg Ser Gly Leu Gly Gly Ala
 171 1 5 10 15
 174 <210> SEQ ID NO: 4

Insert into section 2207-2237.

Insert into section 2207-2237.

Pls see item #10 on error summary sheet. 9/13/04

RAW SEQUENCE LISTING

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TIME: 11:27:52

Input Set : A:\Sunesis-0021.ST25.txt

Output Set: N:\CRF4\09132004\J726967.raw

same
error
=

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175 <211> LENGTH: 6
176 <212> TYPE: PRT
177 <213> ORGANISM: Preferred thrombin cleavage site
179 <400> SEQUENCE: 4
181 Leu Val Pro Arg Gly Ser
182 1 5
185 <210> SEQ ID NO: 5
186 <211> LENGTH: 7
187 <212> TYPE: PRT
188 <213> ORGANISM: TEV protease cleavage site
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (7)..(7)
194 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
196 <400> SEQUENCE: 5
W--> 198 Glu Asn Leu Tyr Phe Asn Xaa
199 1 5
202 <210> SEQ ID NO: 6
203 <211> LENGTH: 7
204 <212> TYPE: PRT
205 <213> ORGANISM: Preferred TEV protease cleavage site
207 <400> SEQUENCE: 6
209 Glu Asn Leu Tyr Phe Asn Gly
210 1 5
213 <210> SEQ ID NO: 7
214 <211> LENGTH: 7
215 <212> TYPE: PRT
216 <213> ORGANISM: Preferred TEV protease cleavage site
218 <400> SEQUENCE: 7
220 Glu Asn Leu Tyr Phe Asn Ala
221 1 5
224 <210> SEQ ID NO: 8
225 <211> LENGTH: 5
226 <212> TYPE: PRT
227 <213> ORGANISM: Genenase I cleavage site
230 <220> FEATURE:
231 <221> NAME/KEY: misc_feature
232 <222> LOCATION: (2)..(2)
233 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
235 <400> SEQUENCE: 8
W--> 237 Ala Xaa His Tyr Ala
238 1 5
241 <210> SEQ ID NO: 9
242 <211> LENGTH: 5
243 <212> TYPE: PRT
244 <213> ORGANISM: Genenase I cleavage site
247 <220> FEATURE:
248 <221> NAME/KEY: misc_feature
249 <222> LOCATION: (2)..(2)

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/726,967

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Input Set : A:\Sunesis-0021.ST25.txt

Output Set: N:\CRF4\09132004\J726967.raw

250 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
252 <400> SEQUENCE: 9
W--> 254 Ala Xaa His Phe Ala
255 1 5
258 <210> SEQ ID NO: 10
259 <211> LENGTH: 5
260 <212> TYPE: PRT
261 <213> ORGANISM: Genenase I cleavage site
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (2)..(2)
267 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
269 <400> SEQUENCE: 10
W--> 271 Ala Xaa His Leu Ala
272 1 5
275 <210> SEQ ID NO: 11
276 <211> LENGTH: 5
277 <212> TYPE: PRT
278 <213> ORGANISM: Genenase I cleavage site
281 <220> FEATURE:
282 <221> NAME/KEY: misc_feature
283 <222> LOCATION: (2)..(2)
284 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
286 <400> SEQUENCE: 11
W--> 288 Phe Xaa His Tyr Ala
289 1 5
292 <210> SEQ ID NO: 12
293 <211> LENGTH: 5
294 <212> TYPE: PRT
295 <213> ORGANISM: Genenase I cleavage site
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (2)..(2)
301 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
303 <400> SEQUENCE: 12
W--> 305 Phe Xaa His Phe Ala
306 1 5
309 <210> SEQ ID NO: 13
310 <211> LENGTH: 5
311 <212> TYPE: PRT
312 <213> ORGANISM: Genenase I cleavage site
315 <220> FEATURE:
316 <221> NAME/KEY: misc_feature
317 <222> LOCATION: (2)..(2)
318 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
320 <400> SEQUENCE: 13
W--> 322 Phe Xaa His Leu Ala
323 1 5
326 <210> SEQ ID NO: 14

Same
error

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/726,967

DATE: 09/13/2004

TIME: 11:27:52

Input Set : A:\Sunesis-0021.ST25.txt

Output Set: N:\CRF4\09132004\J726967.raw

← SAME
error

327 <211> LENGTH: 5
328 <212> TYPE: PRT
329 <213> ORGANISM: Genenase I cleavage site
332 <220> FEATURE:
333 <221> NAME/KEY: misc_feature
334 <222> LOCATION: (2)..(2)
335 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
337 <400> SEQUENCE: 14
W--> 339 Leu Xaa His Tyr Ala
340 1 5
343 <210> SEQ ID NO: 15
344 <211> LENGTH: 5
345 <212> TYPE: PRT
346 <213> ORGANISM: Genenase I cleavage site
349 <220> FEATURE:
350 <221> NAME/KEY: misc_feature
351 <222> LOCATION: (2)..(2)
352 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
354 <400> SEQUENCE: 15
W--> 356 Leu Xaa His Phe Ala
357 1 5
360 <210> SEQ ID NO: 16
361 <211> LENGTH: 5
362 <212> TYPE: PRT
363 <213> ORGANISM: Genenase I cleavage site
366 <220> FEATURE:
367 <221> NAME/KEY: misc_feature
368 <222> LOCATION: (2)..(2)
369 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
371 <400> SEQUENCE: 16
W--> 373 Leu Xaa His Leu Ala
374 1 5
377 <210> SEQ ID NO: 17
378 <211> LENGTH: 5
379 <212> TYPE: PRT
380 <213> ORGANISM: Genenase I cleavage site
383 <220> FEATURE:
384 <221> NAME/KEY: misc_feature
385 <222> LOCATION: (2)..(2)
386 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
388 <400> SEQUENCE: 17
W--> 390 Tyr Xaa His Tyr Ala
391 1 5
394 <210> SEQ ID NO: 18
395 <211> LENGTH: 5
396 <212> TYPE: PRT
397 <213> ORGANISM: Genenase I cleavage site
400 <220> FEATURE:
401 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/726,967

DATE: 09/13/2004
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Input Set : A:\Sunesis-0021.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 7 ✓
 Seq#:8; Xaa Pos. 2 ✓
 Seq#:9; Xaa Pos. 2 ✓
 Seq#:10; Xaa Pos. 2 ✓
 Seq#:11; Xaa Pos. 2 ✓
 Seq#:12; Xaa Pos. 2 ✓
 Seq#:13; Xaa Pos. 2 ✓
 Seq#:14; Xaa Pos. 2 ✓
 Seq#:15; Xaa Pos. 2 ✓
 Seq#:16; Xaa Pos. 2 ✓
 Seq#:17; Xaa Pos. 2 ✓
 Seq#:18; Xaa Pos. 2
 Seq#:19; Xaa Pos. 2
 Seq#:37; Xaa Pos. 3,5
 Seq#:38; Xaa Pos. 3,5
 Seq#:39; Xaa Pos. 3,5
 Seq#:40; Xaa Pos. 3,5
 Seq#:41; Xaa Pos. 3,5
 Seq#:42; Xaa Pos. 3,5
 Seq#:43; Xaa Pos. 3,5
 Seq#:44; Xaa Pos. 3,5
 Seq#:45; Xaa Pos. 3,5
 Seq#:46; Xaa Pos. 3,5
 Seq#:47; Xaa Pos. 3,5
 Seq#:48; Xaa Pos. 3,5

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 155
 Seq#:64; Line(s) 1063
 Seq#:70; Line(s) 1117
 Seq#:71; Line(s) 1126
 Seq#:72; Line(s) 1135
 Seq#:73; Line(s) 1144
 Seq#:74; Line(s) 1153
 Seq#:75; Line(s) 1162
 Seq#:76; Line(s) 1171
 Seq#:77; Line(s) 1290
 Seq#:78; Line(s) 1299
 Seq#:84; Line(s) 1575

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/726,967

DATE: 09/13/2004

TIME: 11:27:53

Input Set : A:\Sunesis-0021.ST25.txt

Output Set: N:\CRF4\09132004\J726967.raw

L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0